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L10, n
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L12
L13(
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L17
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L20
L21
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L22
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L23
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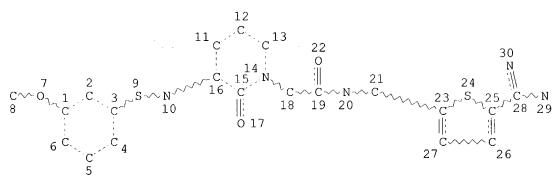
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L26

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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 30

100.0% PROCESSED 26 ITERATIONS SEARCH TIME: 00.00.01

0 ANSWERS

=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 09:59:51 ON 19 MAR 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

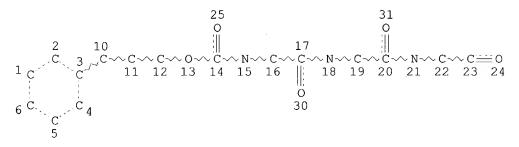
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FILE COVERS 1907 - 19 Mar 2003 VOL 138 ISS 12 FILE LAST UPDATED: 18 Mar 2003 (20030318/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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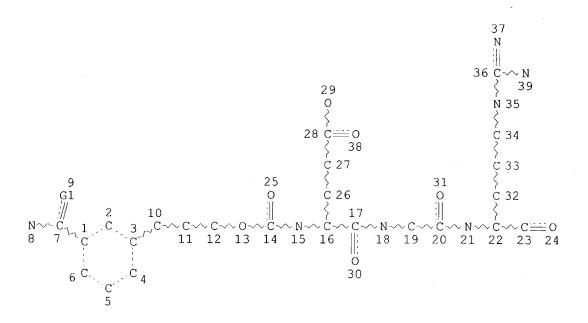
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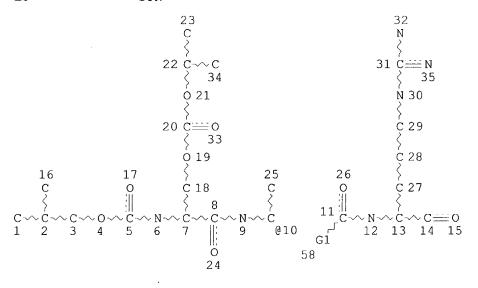
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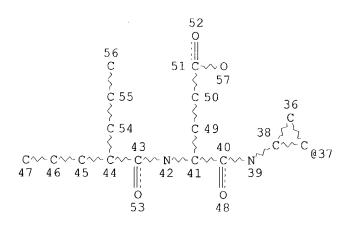
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STEREO ATTRIBUTES: NONE

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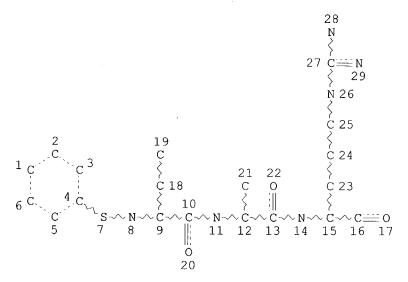
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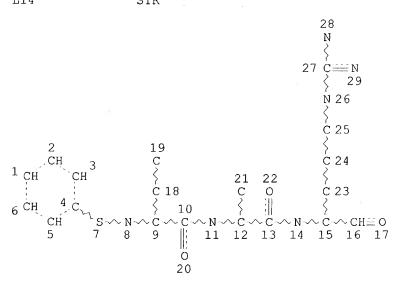
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NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L13 (22)SEA FILE=REGISTRY SSS FUL L12 L14 STR



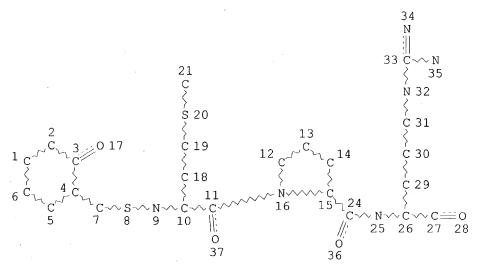
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GRAPH ATTRIBUTES:

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STEREO ATTRIBUTES: NONE

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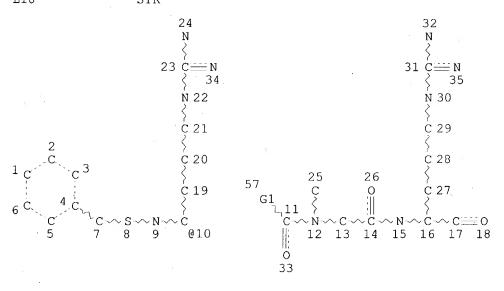
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STEREO ATTRIBUTES: NONE

L17 2 SEA FILE=REGISTRY SSS FUL L16 L18 STR



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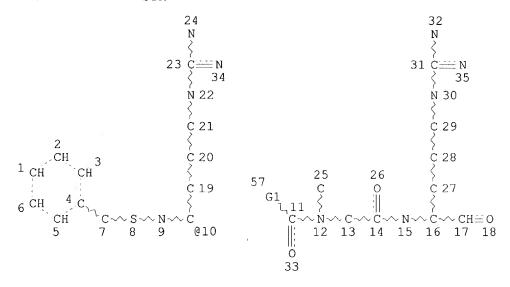
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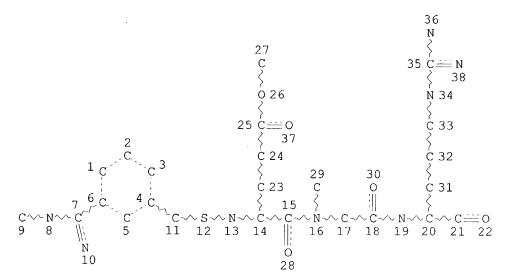
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RING(S) ARE ISOLATED OR EMBEDDED

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=>

=> d ibib abs hitrn 125 1-8

L25 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2003:203392 HCAPLUS

TITLE:

Preparation of peptides as inhibitors of serine

protease activity of matriptase or MTSP1

INVENTOR(S):

Semple, Joseph E.; Coombs, Gary S.; Reiner, John E.;

Ong, Edgar O.; Araldi, Gian Luca

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 34 pp., Cont.-in-part of Appl.

No. PCT/US01/28137.

CODEN: USXXCO

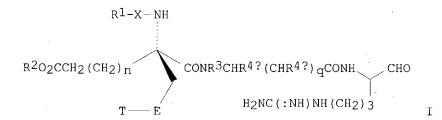
DOCUMENT TYPE:

Patent LANGUAGE: English

Page 24

FAMILY ACC. NUM. COUNT: 4 PATENT INFORMATION:

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	US	2003050251 2002020475					20030313 20020314			US 2002-92004					2002				
	WO									W	0 20	01-U	S281	37 2001					
		W:					ΑT,												
							DE,												
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PR1	IORITY APPLN. INFO			. :				Ī	US 2000-657986					A2 20000908					
									Ţ	WO 2	001-	US28:	137	A2	2001	0907			
GΙ																			



The invention provides compds. I [X = CO, CO2, CONH, SO2, SO2NH or a direct link; R1 = (un)substituted alkyl, cycloalkyl, aryl, heterocycloalkyl, H when X is CONH, SO2, SO2NH or a direct link, etc.; R2 = H, alkyl; n = 0-3; R3 = H, Me; R4a, R4b = H, alkyl; q = 0-2; when q = 0, R3 and R4a form prolyl or prolyl derivs., pipecolyl, or azetidine-2-carbonyl groups which are in the S-configuration; E is a 5- or 6-membered arom. ring having 0-2 ring heteroatoms; T is H, OH, CH2OH, alkyl, cyano, an amidino, guanidino, amino or carbamoyl deriv.] which inhibit serine protease activity of matriptase or MTSP1. Also provided are pharmaceutical compns. for treating conditions ameliorated by inhibition of matriptase or MTSP1. Thus, (R)-5-[3-(diaminomethyl)phenyl]-4-[(1-formyl-(S)-4-guanidinobutylcarbamoylmethyl)carbamoyl]-4-(methoxycarbonylamino)pentanoic acid tert-Bu ester was prepd. and showed IC50 < 100 nM for inhibition of matriptase activity.

IT 173656-55-8P 180312-25-8P 403669-25-0P 403669-26-1P 403669-29-4P 403669-32-9P 403669-33-0P 403669-34-1P 403669-37-4P 403669-39-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of peptides as inhibitors of serine protease activity of matriptase or MTSP1)

L25 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:185072 HCAPLUS

DOCUMENT NUMBER: 136:232549

TITLE: Preparation of peptides as inhibitors of serine

protease activity of matriptase or MTSP1

INVENTOR(S): Duncan, David F.; Madison, Edwin L.; Semple, Joseph Edward; Coombs, Gary Samuel; Reiner, John Eugene; Ong,

Edgar O.; Araldi, Gian Luca PATENT ASSIGNEE(S): SOURCE:

Corvas International, Inc., USA

PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

GΙ

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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WO									WO 2001-US2813										
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AU	AU 2001088922					A5 20020322					AU 2001-88922					20010907			
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PRIORIT				Ţ	JS 2	-000	6579	86	Α	20000	908								
WO 2001-US28137 W 20010907																			
OTHER SO	OURCE	(S):			MAR	PAT :	136:2	23254	19										

 $R^{1}-X-NH$ CONR³CHR⁴? (CHR⁴?) aCONH $H_2NC(:NH)NH(CH_2)_3$

AΒ The invention provides compds. I [X = CO, CO2, CONH, SO2, SO2NH or a direct link; R1 = (un)substituted alkyl, cycloalkyl, aryl, heterocycloalkyl, H when X is CONH, SO2, SO2NH or a direct link, etc.; R2 = H, alkyl; n = 0-3; R3 = H, Me; R4a, R4b = H, alkyl; q = 0-2; when q = 0, R3 and R4a form prolyl or prolyl derivs., pipecolyl, or azetidine-2-carbonyl groups which are in the S-configuration; E is a 5- or 6-membered arom. ring having 0-2 ring heteroatoms; T is H, OH, CH2OH, alkyl, cyano, an amidino, guanidino, amino or carbamoyl deriv.] which inhibit serine protease activity of matriptase or MTSP1. Also provided are pharmaceutical compns. for treating conditions ameliorated by inhibition of matriptase or MTSP1. Thus, (R)-5-[3-(diaminomethyl)phenyl]-4-[(1-formyl-(S)-4-guanidinobutylcarbamoylmethyl)carbamoyl]-4-(methoxycarbonylamino)pentanoic acid tert-Bu ester was prepd. and showed IC50 < 100 nM for inhibition of matriptase activity.

173656-55-8P 180312-25-8P 403669-25-0P 403669-26-1P 403669-29-4P 403669-32-9P 403669-33-0P 403669-34-1P 403669-37-4P 403669-39-6P

> RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of peptides as inhibitors of serine protease activity of matriptase or MTSP1)

L25 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2000:113118 HCAPLUS

DOCUMENT NUMBER:

132:152140

TITLE:

Preparation of N-substituted glycine derivatives as

enzyme inhibitors

INVENTOR(S):

Abelman, Matthew Mark; Miller, Todd Anthony; Nutt,

Ruth Foelsche

PATENT ASSIGNEE(S):

Corvas International, Inc., USA

SOURCE:

U.S., 67 pp., Cont.-in-part of U.S. 5,696,231.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
US 5696231 CA 2207373	A AA	19971209 19960627	US 1995-484509 19950607 US 1994-361794 19941221 CA 1995-2207373 19951221 WO 1995-US16866 19951221
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AU 716995	В2	20000316	AU 1996-46086 19951221 EP 1995-944234 19951221
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HU 77524 JP 10512550	A A2 T2 A	19980121 19980528 19981202 20010330	BR 1995-10264 19951221 CN 1995-196925 19951221 HU 1998-71 19951221 JP 1995-520031 19951221 NZ 1995-300829 19951221 US 1994-361794 A2 19941221
OTHER SOURCE(S):			US 1995-484509 A 19950607 WO 1995-US16866 W 19951221 2140

Glycine derivs. I [X = SO2, NR'SO2, CO, O2C, NHCO, P(O)R'', bond; R' = H,AΒ alkyl, aryl, aralkyl; R'' = NR', OR', R', SR'; R1 = H, substituted benzyl or naphthyl; R2 = H, tetrazol-5-ylalkyl, tetrazol-5-ylalkylsulfonylmethyl,

pyridin-3-ylalkyl, H, 3-guanidinopropyl, 2-methylsulfonylethyl, etc.; R3 = H, cycloalkyl, (un)substituted alkyl or aryl; R4 = H, (un)substituted alkyl or aryl] were prepd. as potent inhibitors of factor Xa. Thus, D-camphorsulfonyl-D-arginine-sarcosine-arginine aldehyde, prepd. by soln. phase methods, inhibited factor Xa catalytic activity with IC50 = 8.2 nM.

180312-25-8P TΤ

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of N-substituted glycine derivs. as enzyme inhibitors)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2000:30818 HCAPLUS

DOCUMENT NUMBER:

132:231498

TITLE:

Design, synthesis and structure-activity relationship of a series of arginine aldehyde factor Xa inhibitors.

Part 1: Structures based on the (D)-Arg-Gly-Arg

tripeptide sequence

AUTHOR(S):

Marlowe, Charles K.; Sinha, Uma; Gunn, Alice C.;

Scarborough, Robert M.

CORPORATE SOURCE:

COR Therapeutics, Inc., South San Francisco, CA,

94080, USA

SOURCE:

Bioorganic & Medicinal Chemistry Letters (2000),

10(1), 13-16 CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal English

LANGUAGE:

A series of arginine aldehyde inhibitors was designed as transition state (TS) analogs based on the known factor Xa specific substrate Cbz-D-Arg-Gly-Arg-pNA. BnSO2-(D)Arg-Gly-Arg-H was found to be the most potent and selective inhibitor of factor Xa and prothrombinase activity in this series.

180312-25-8P ΙT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(design, synthesis and SAR of arginine aldehyde factor Xa inhibitors

based on the Arg-Gly-Arg tripeptide sequence) THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS

20

REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2003 ACS 1997:701469 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

127:346661

TITLE:

Preparation of methionine sulfone and S-substituted cysteine sulfone derivatives as enzyme inhibitors Abelman, Matthew M.; Ardecky, Robert J.; Nutt, Ruth F.

INVENTOR(S):

Corvas International, Inc., USA

PATENT ASSIGNEE(S): SOURCE:

U.S., 82 pp., Cont.-in-part of U.S. Ser. No. 229,298.

CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5681844 US 5776927	A . A	19971028 19980707	US 1994-234811 US 1994-229298	19940428 19940418
WO 9528420	Α1	19951026	WO 1995-US4954	19950418

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OTHER SOURCE(S):

MARPAT 127:346661

GI

$$R^{2}CH_{2}$$
 $R^{1}XNH$
 C
 NH
 CHO
 HN
 $H_{2}N$
 NH
 I

Enzyme inhibitory title compds. I [X = CO, SO2, OSO2, NHSO2, alkyl-, AB aryl-, or aralkyliminosulfonyl; R1 = (un)substituted alkyl, alkenyl, aryl, aralkyl, or aralkenyl or perfluoroalkyl, perfluoroaryl, trimethylsilylalkyl; R2 = MeSCH2, MeSOCH2, MeSO2CH2 or derivs. from substitution at Me; Y = (CH2)n, where n = 1, 2, 3] or their pharmaceutically acceptable salts were prepd. Thus, N-(butanesulfonyl)-Lmethioninesulfone-L-proline-L-argininal, prepd. via solid-phase reaction of N-(butanesulfonyl)-L-methioninesulfone-L-proline, showed IC50 values of 0.0016 and 0.199 .mu.M for inhibition of thrombin and plasmin, resp.

173534-53-7P 173656-55-8P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of methionine sulfone and S-substituted cysteine sulfone derivs. as enzyme inhibitors)

L25 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2003 ACS 1997:574514 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE:

INVENTOR(S):

IT

127:220992

Preparation of methionine sulfone and S-substituted

cysteine sulfone derivatives as thrombin or factor Xa

inhibitors

Abelman, Matthew Mark; Ardecky, Robert John; Nutt,

Ruth Foelsche

PATENT ASSIGNEE(S):

Corvas International Inc., USA

SOURCE: U.S., 88 pp., Cont.-in-part of U.S. Ser. No. 234,811,

abandoned. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
US 5658939	A	19970819	US 1995-423584 199504	18
US 5776927	A	19980707	US 1994-229298 199404	18
US 5681844	A	19971028	US 1994-234811 199404	28
US 5770600	A	19980623	us 1995-473647 199506	06
PRIORITY APPLN. INFO.	:		US 1994-229298 A2 199404	18
			US 1994-234811 A2 199404	28
			US 1995-423584 A1 199504	18

OTHER SOURCE(S): MARPAT 127:220992

GΙ

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = alkyl, alkenyl, (substituted) aryl, heterocyclyl such as indole, etc.; X = C0, O2C, NHCO, SO2, O3S, NHSO2, etc.; R2 = CH2S(O)q(CH2)mZ where q = 0-2, m = 1-6 and Z = H, (substituted) CO2H, (substituted) CONH2; Y = (CH2)n where n = 1-3] were prepd. as thrombin or factor Xa inhibitors. Methionine sulfone II was prepd. from the resin-bound semicarbazone III (R = MBHA resin); III was coupled with Boc-Pro-OH and N-cyclohexylmethanesulfonyl-L-methionine sulfone, successively, followed by cleavage of the protected semicarbazone from the resin and hydrolysis of the semicarbazone to give II. II exhibited IC50 values of 0.00066 and 0.030 .mu.M against thrombin and plasmin, resp.

IT 173656-55-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of peptide aldehydes contg. methionine or cysteine sulfones as thrombin, factor Xa or plasmin inhibitors)

L25 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1996:527345 HCAPLUS

DOCUMENT NUMBER: 125:196382

TITLE: Preparation of peptide aldehydes as inhibitors of

factor Xa.

INVENTOR(S): Abelman, Matthew Mark; Miller, Todd Anthony; Nutt,

Ruth Foelsche

PATENT ASSIGNEE(S): Corvas International, Inc., USA

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	PAT	ENT	NO.		KI	ND	DATE			A	PPLI	CATI	N NC	Э.	DATE			
	WO 9619493			A	1	19960627			W	19	95 - U	S168	66	19951221				
		W:	AM,	AT,	AU,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CZ,	DE,	DK,	EE,	ES,	FI,
			GB,	GE,	HU,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LK,	LR,	LT,	LU,	LV,	MD,
			MG.	MN.	MW.	MX.	NO.	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	ТJ,

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TM, TT
         RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE,
             IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,
             NE, SN, TD, TG
                                             US 1994-361794
                             19971209
     US 5696231
                                                               19941221
                        Α
                                             US 1995-484509
     US 6025472
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                             20000215
                                                               19950607
                                             AU 1996-46086
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                             19960710
     AU 9646086
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     AU 716995
                        В2
                             20000316
                                             EP 1995-944234
     EP 801654
                        Α1
                             19971022
                                                               19951221
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV
     BR 9510264
                             19971104
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                        Α
     JP 10512550
                        T2
                             19981202
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                                                               19951221
     NZ 300829
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                                             NZ 1995-300829
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PRIORITY APPLN. INFO.:
                                          US 1994-361794
                                                           Α
                                                               19941221
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                                                           Α
                                                               19950607
                                         WO 1995-US16866
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                                                               19951221
OTHER SOURCE(S):
                          MARPAT 125:196382
GΙ
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AB Title compds. [I; X = SO2, NR'SO2, CO, O2C, NHCO, P(O)R'', bond; R' = H,
 alkyl, aryl, aralkyl; R'' = NR', OR', R', SR'; Rl = H, (substituted)
 alkyl, cycloalkyl, heterocycloalkyl, heterocyclyl, alkenyl, aryl,
 heteroaryl, aralkyl, aralkenyl, CHF2, perfluoroalkyl, perfluoroaryl, etc.;
 R2 = H, tetrazol-5-ylalkyl, tetrazol-5-ylalkylsulfonylmethyl,
 pyridin-3-ylalkyl, guanidinoalkyl, methylsulfonylalkyl, etc.; R3 = H,
 (substituted) alkyl, cycloalkyl, aryl; R4 = H, (substituted) alkyl; with
 provisos], were prepd. Thus, title compd. (II), prepd. by soln. phase
 methods, inhibited factor Xa catalytic activity with IC50 = 1.7 nM.
IT 180312-25-8P 180313-16-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of peptide aldehydes as inhibitors of factor Xa)

Preparation of methionine sulfone and S-substituted

1995:998134 HCAPLUS

124:176949

L25 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

=>

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cysteine sulfone derivatives as inhibitors of thrombin
                          or Factor Xa.
                          Abelman, Matthew M.; Ardecky, Robert John; Nutt, Ruth
INVENTOR(S):
                          Foelsche
                          Corvas International, Inc., USA
PATENT ASSIGNEE(S):
                          PCT Int. Appl., 245 pp.
SOURCE:
                          CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
                          English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                             DATE
                                              APPLICATION NO.
                                                                DATE
     PATENT NO.
                       KIND
                              _____
                                             WO 1995-US4954
                                                                19950418
     WO 9528420
                        Α1
                              19951026
         W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ,
              TM, TT
         RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
              LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
              SN, TD, TG
                                              US 1994-229298
                                                                19940418
                              19980707
     US 5776927
                        Α
                                              US 1994-234811
                                                                19940428
                              19971028
     US 5681844
                        Α
                                                                19950418
                              19951110
                                              AU 1995-23609
     AU 9523609
                        A1
                                                                19950418
     EP 765340
                              19970402
                                             EP 1995-917624
                        Α1
     EP 765340
                        В1
                              20000830
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
                                              JP 1995-527181
                                                               19950418
     JP 09512022
                        Τ2
                              19971202
                                                                19950418
                                              AT 1995-917624
     AT 195947
                              20000915
                        Ε
                                           US 1994-229298 A 19940418
PRIORITY APPLN. INFO.:
                                           US 1994-234811
                                                           A 19940428
                                           WO 1995-US4954
                                                           W 19950418
OTHER SOURCE(S):
                          MARPAT 124:176949
GΙ
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
     Title compds. [I; X = CO, O2C, NHCO, SO2, OSO2, NRSO2; R = alkyl, aryl,
AB
     aralkyl; R1 = alkyl, cycloalkylalkyl, alkenyl, cycloalkylalkenyl,
     perfluoroalkyl, perfluoroaryl, trimethylsilylalkyl, (substituted) aryl,
     aralkyl, aralkenyl, etc.; R2 = CH2SOqMe, CH2SOq(CH2)mCO2H,
     CH2SOq(CH2)mCO2R, etc.; m = 1-6; n = 1-3; q = 0-2], were prepd. for
     preventing thrombosis. Thus, title compd. (II) inhibited FeCl3-induced
     thrombosis in rats with ED50 = 0.7 mg/kg.
IT
     173534-53-7P 173656-55-8P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
         (prepn. of methionine sulfone and S-substituted cysteine sulfone
```

derivs. as inhibitors of thrombin or Factor Xa)

=> fil caold

FILE 'CAOLD' ENTERED AT 10:04:03 ON 19 MAR 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS) FILE COVERS 1907-1966 FILE LAST UPDATED: 01 May 1997 (19970501/UP) This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats. This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information. => => => s 1240 L24 L26 => => fil reg FILE 'REGISTRY' ENTERED AT 10:05:11 ON 19 MAR 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS) Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem. 18 MAR 2003 HIGHEST RN 499968-86-4 STRUCTURE FILE UPDATES: 18 MAR 2003 HIGHEST RN 499968-86-4 DICTIONARY FILE UPDATES: TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002 Please note that search-term pricing does apply when conducting SmartSELECT searches. Crossover limits have been increased. See HELP CROSSOVER for details. Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf => d ide can 124 tot ANSWER 1 OF 12 REGISTRY COPYRIGHT 2003 ACS L24 403669-39-6 REGISTRY RN Glycinamide, N-[[[3-[imino(methylamino)methyl]phenyl]methyl]sulfonyl]-L-CN .alpha.-glutamyl-N-[(1S)-4-[(aminoiminomethyl)amino]-1-formylbutyl]-N2methyl-, methyl ester (9CI) (CA INDEX NAME) STEREOSEARCH FS MF C24 H38 N8 O7 S SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:232549

L24 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2003 ACS

RN 403669-37-4 REGISTRY

CN 1H-Tetrazole-5-butanamide, N-[2-[[(1S)-4-[(aminoiminomethyl)amino]-1-formylbutyl]amino]-2-oxoethyl]-.alpha.-[[[[3-(aminoiminomethyl)phenyl]methyl]sulfonyl]amino]-N-methyl- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H34 N12 O5 S

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:232549

L24 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2003 ACS

RN 403669-34-1 REGISTRY

CN Butanamide, N-[(1S)-2-[[(1S)-4-[(aminoiminomethyl)amino]-1-formylbutyl]amino]-1-methyl-2-oxoethyl]-2-[(phenylsulfonyl)amino]-, (2R)-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C19 H30 N6 O5 S

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

$$H_{2N}$$
 H_{2N}
 H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:232549

L24 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2003 ACS

RN 403669-33-0 REGISTRY

CN Glycinamide, N-[[2-(aminoiminomethyl)phenyl]sulfonyl]-L-.alpha.-glutamyl-N[(1S)-4-[(aminoiminomethyl)amino]-1-formylbutyl]-N2-methyl- (9CI) (CA
INDEX NAME)

FS STEREOSEARCH

MF C21 H32 N8 O7 S

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

$$H_2N$$
 NH
 CHO
 O
 Me
 HO_2C
 NH
 NH_2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:232549

L24 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2003 ACS

RN 403669-32-9 REGISTRY

CN Glycinamide, N-[[3-[3-(aminocarbonyl)phenyl]propoxy]carbonyl]-L-.alpha.-glutamyl-N-[(1S)-4-[(aminoiminomethyl)amino]-1-formylbutyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C24 H35 N7 O8

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

NH2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:232549

L24 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2003 ACS

RN 403669-29-4 REGISTRY

CN Glycinamide, N-[[[4-(aminocarbonyl)phenyl]methyl]sulfonyl]-L-.alpha.-glutamyl-N-[(1S)-4-[(aminoiminomethyl)amino]-1-formylbutyl]-N2-methyl-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H33 N7 O8 S

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:232549

L24 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2003 ACS

RN 403669-26-1 REGISTRY

CN L-Alaninamide, O-[(1-methylethoxy)carbonyl]-N-[(2-methylpropoxy)carbonyl]-D-seryl-N-[(1S)-4-[(aminoiminomethyl)amino]-1-formylbutyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C21 H38 N6 O8

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:232549

L24 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2003 ACS

RN 403669-25-0 REGISTRY

CN Glycinamide, N-[[3-[3-(aminoiminomethyl)phenyl]propoxy]carbonyl]-L-.alpha.-glutamyl-N-[(1S)-4-[(aminoiminomethyl)amino]-1-formylbutyl]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C24 H36 N8 O7

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-B

-NH₂

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

136:232549 - Sur #4 REFERENCE

ANSWER 9 OF 12 REGISTRY COPYRIGHT 2003 ACS

RN 180313-16-0 REGISTRY

CN L-Serinamide, N2-[(phenyl/methyl)sulfonyl]-D-arginyl-N-[4-[(aminoiminomethyl)amino]-1-formylbutyl]-N2-methyl-O-(phenylmethyl)-, (S)-(CA INDEX NAME)

STEREOSEARCH FS

MF C30 H45 N9 O6 S

SR

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:196382

L24

RN

ANSWER 10 OF 12 REGISTRY COPYRIGHT 2003 ACS 180312-25-8 REGISTRY Glycinamide, N2-[(phenylmethyl)sulfonyl]-D-arginyl-N-[(1S)-4-CN

[(aminoiminomethyl)amino]-1-formylbutyl]-N2-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glycinamide, N2-[(phenylmethyl)sulfonyl]-D-arginyl-N-[4-

[(aminoiminomethyl)amino]-1-formylbutyl]-N2-methyl-, (S)-

FS STEREOSEARCH

MF C22 H37 N9 O5 S

SR CA

LCSTN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1962 TO DATE)

5 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE

1: .136:232549

REFERENCE

2: 132:231498

REFERENCE

3: 132:152140

REFERENCE

125:196382 4:

ANSWER 11 OF 12 REGISTRY COPYRIGHT 2003 ACS

173656-55-8 REGISTRY

CN. L-Prolinamide, (2S)-2-[[[(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-individual (2S)-2-[[[(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-individual (2S)-2-[[[(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-individual (2S)-2-[[[(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-individual (2S)-2-[[[(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-individual (2S)-2-[[(10,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-individual (2S)-2-[[(10,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-individual (2S)-2-[(10,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-individual (2S)-2-[(10,7-dimethyl-2-[(10,7-dimeyl)methyl]sulfonyl]amino]-4-(methylsulfonyl)butanoyl-N-[(1S)-4-[(aminoiminomethyl)amino]-1-formylbutyl]- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:

L-Prolinamide, N-[[(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1yl) methyl] sulfonyl] -4- (methylsulfonyl) -L-2-aminobutanoyl-N-[4-[(aminoiminomethyl)amino]-1-formylbutyl]-, [1(1S),2(S)]-

FS STEREOSEARCH

MF! C26 H44 N6 O8 S2

∽ CA SR

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1962 TO DATE)

5 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:232549

REFERENCE 2: 127:346661

REFERENCE 3: 127:220992

REFERENCE 4: 124:176949

L24 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2003 ACS

RN 173534-53-7 REGISTRY

CN L-Prolinamide, N-[[(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methyl]sulfonyl]-4-(methylsulfonyl)-L-2-aminobutanoyl-N-[4-[(aminoiminomethyl)amino]-1-formylbutyl]-, [1(1R),2(S)]- (9CI) (CA INDEX

FS STEREOSEARCH

MF C26 H44 N6 O8 S2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:346661 ·

REFERENCE 2: 124:176949